

Patent Abstracts of Japan

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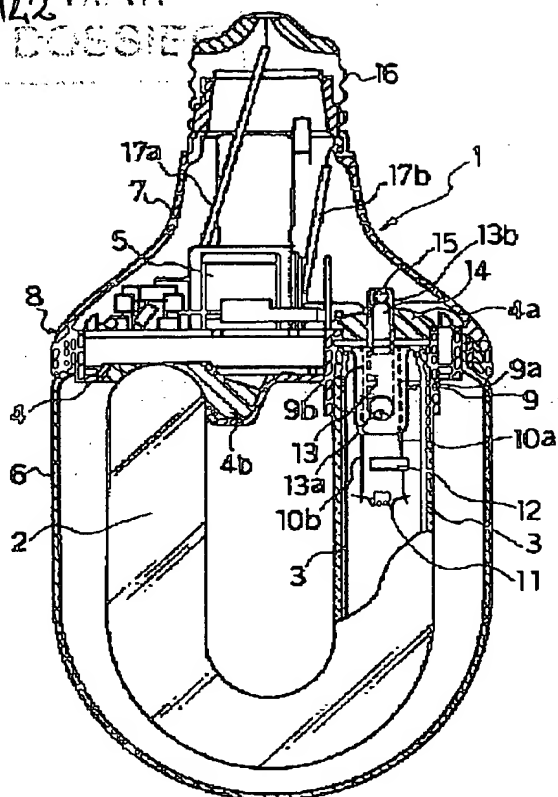
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TITLE : BULB-SHAPED FLUORESCENT LAMP



ABSTRACT : PROBLEM TO BE SOLVED: To improve the luminous flux stability in lighting operation without reducing the luminous flux starting characteristic in starting of a bulb-shaped fluorescent lamp by constituting the composition of a main amalgam so that the reaction end temperature in the change of the main amalgam from solid phase to liquid phase is lower than the ambient temperature of the main amalgam in lighting operation.

SOLUTION: A minute clearance is provided between an exhaust pipe 13 and a glass bar 14, and mercury vapor within an arc tube 2 makes contact with a main amalgam 15 through an opening part 13a and the clearance. The main amalgam 15 is formed of Bi, Pb, Sn and Hg, and the composition is Bi:Pb: Sn:Hg=(40-58):(22-55):(5-20):(1-10) by wt.%. According to such a structure, the reaction end temperature in the change of the main amalgam 15 from solid phase to liquid phase is lower than the temperature in a position where a main amalgam part 13b containing the main amalgam 15 is situated in lighting operation (the ambient temperature of the main amalgam).

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